

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/501,609	04/15/2005	Matthew A. Spear	UCSD-08833	2275
23535 7590 07/03/2007 MEDLEN & CARROLL, LLP		EXAMINER		
101 HOWARD STREET			SHIBUYA, MARK LANCE	
SUITE 350 SAN FRANCIS	SCO, CA 94105	•	ART UNIT	PAPER NUMBER
			1639	
•				
			MAIL DATE	DELIVERY MODE
	•		07/03/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/501,609	SPEAR, MATTHEW A.				
Office Action Summary	Examiner	Art Unit				
	Mark L. Shibuya, Ph.D.	1639				
The MAILING DATE of this communication app	1 · · · · · · · · · · · · · · · · · · ·					
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	I. lely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 4/15/	<u>2005</u> .					
2a) This action is FINAL . 2b) This	This action is FINAL . 2b) This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-16</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6) Claim(s) is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) <u>1-16</u> are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examine	r.					
10) The drawing(s) filed on is/are: a) accepted or b) dipected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
See the attached detailed Office action for a list of	or the certified copies not receive	a.				
Attachment(s)	. 🗖					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date.						
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal P 6) Other:					

Art Unit: 1639

DETAILED ACTION

1. Claims 1-16 are pending.

Election/Restrictions

2. Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 1-3, 6-8 drawn to a method comprising providing target cells, a library of ligand and an indicator; contacting the target cells with the ligands of the library to create treated target cells that are activated; exposing the treated cells to the indicator, collecting the activated target cell and recovering the ligand from a collected activated target cell.

Group II, claim(s) 4-5, drawn to the target cell of claim 3 an acute lymphoblastic leukemia cell.

Group III, claim(s) 9-12, drawn to a method comprising a library having a ligand capable of binding to at least one activated target cell; said method comprising providing target cells, a library of ligand and an indicator; contacting activated target cells with the ligands of the library; exposing the contacted cells to the indicator, collecting the activated target cell and recovering the ligand from a collected activated target cell.

Group IV, claim(s) 12, 13, 14-16, drawn to the target cell of claim 11 that is an acute lymphoblastic leukemia cell.

The inventions listed as Groups I-IV do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

Application/Control Number: 10/501,609

Art Unit: 1639

Groups II and IV are hybrid claims drawn to target cells of the method of Groups I and III, respectively, and wherein the target cell that is an acute lymphoblastic leukemia cell. Acute lymphoblastic leukemia cell, such as Jurkat cells, are well known in the art, (see, e.g., Weiss et al., US 5,474897, in the claims; Capon et al., US 5837464, in the claims including claims 25, 28, 35; Huber et al., US 6040145, in the claims.

Page 3

Furthermore, Larocca, WO 99/10485, throughout the publication, and at pp. 2-3, pp. 10-13, discloses methods comprising providing target cells, a library of ligand and an indicator; contacting the target cells with the ligands of the library to create treated target cells that are activated; exposing the treated cells to the indicator, collecting the activated target cell and recovering the ligand from a collected activated target cell.

Therefore, there is no special technical feature linking the claims. Therefore, restriction for lack of unity of invention is proper.

Election/Restrictions

3. This application contains claims directed to more than one species of the generic invention. These species are deemed to lack unity of invention because they are not so linked as to form a single general inventive concept under PCT Rule 13.1.

The species are as follows:

A cellular response.

An indicator.

Applicant is required, in reply to this action, to elect a single species to which the claims shall be restricted if no generic claim is finally held to be allowable. The reply must also identify the claims readable on the elected species, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.

Art Unit: 1639

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

The claims are deemed to correspond to the species listed above in the following manner:

A cellular response: Claims 6, 7, 14, 15.

An indicator: Claims 8, 16.

The following claim(s) are generic: Claims 1, 6, 7, 9, 14, 15.

The species listed above do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, the species lack the same or corresponding special technical features for the following reasons: Larocca, WO 99/10485, throughout the publication, and at pp. 2-3, pp. 10-13, discloses methods comprising, at least, fluorescence.

Furthermore, Rosenschein et al., US 5984882 A, throughout the patent, and at col. 10, lines 5-15, disclose methods of detection comprising fluorescent labeled Annexin V, (such Annexin V being well-known in the art at the time of filing of the instant application).

4. Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not

Art Unit: 1639

distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Page 5

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mark Shibuya, whose telephone number is (571) 272-0806. The examiner can normally be reached on M-F, 8:30AM-5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dr. J. Douglas Schultz can be reached on (571) 272-0763. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/501,609

Art Unit: 1639

Page 6

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Mark L. Shibuya, Ph.D.

Primary Examiner

Art Unit 1639